

**FY2014 KY SECTION 106 WORKPLAN
REGION 4 KENTUCKY MONITORING PROGRAM COMMITMENTS**

Draft or Final (Underline one) Date of latest workplan revision: 12/01/2014

EPA Technical Point of Contact: Leah Ettema
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The EPA Grant Policy Issuance 11-03, *State Grant Workplans and Progress Reports* (GPI 11-03), requires that all workplans for state categorical program grants prominently display EPA's strategic goals and objectives as identified in the document *FY 2011-2015 EPA Strategic Plan* (EPA-190-R-10-002). In its Annual Commitments System (ACS) document, the Office of Water has identified specific measures that address the strategic goals and objectives outlined by EPA in its strategic plan. For each task identified in this program workplan, references to the corresponding ACS measures were included under the column "*Basis for 106 Workplan Task*." These references ensure that all of the specific commitments made by the State are properly correlated to the strategic goals and objectives of the Agency.

The tasks identified in this workplan address the following goal(s) and objective(s):

Goal 2: Protecting America's Waters. Protect and restore our waters to ensure that drinking water is safe, and that aquatic ecosystems sustain fish, plants and wildlife, and economic, recreational, and subsistence activities.

Objective 2.2: Protect and Restore Watersheds and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams, and wetlands on a watershed basis, and protect urban, coastal, and ocean waters.

*****Goal 5 only needs to be included for programs that have enforcement components as part of their activities. Please do not include Goal 5 for other programs.*****

Goal 5: Enforce Environmental Laws. Protect human health and the environment through vigorous and targeted civil and criminal enforcement. Assure compliance with environmental laws.

Objective 5.1: Pursue vigorous civil and criminal enforcement that targets the most serious water, air, and chemical hazards in communities. Assure strong, consistent, and effective enforcement of federal environmental laws nationwide.

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Goal 2 – Protecting America's Waters

Goal 5 – Enforce Environmental Laws

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MONITORING COMMITMENTS/TASKS						

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1	State Monitoring Strategy: The State will annually review and maintain a comprehensive monitoring strategy containing all of the information as outlined in <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003). Strategy revisions such as refined objectives, designs, evaluation processes, general support and infrastructure needs, and other elements will be provided to EPA for review.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003)	Output: Revised Monitoring Strategy document.	12/31/13		Staff 2014 input recommended areas for further review; this effort is underway with expected updates 12/31/2015. KY currently implements the 2005 Elements of a State Water Monitoring and Assessment Program. State Water Monitoring and Assessment Program

WQ-5

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2	Monitoring Workplan: The State shall submit its projected annual monitoring and assessment workplan for FY13, consistent with the comprehensive monitoring strategy, including §106, 104, 604 and other monitoring activities. This plan should contain the numbers of sites to be sampled for each of the following water quality data: ambient water chemistry, biology, habitat, fish tissue, toxicity and sediment chemistry data.	Program Priority WQ-5	Output: FY2013 monitoring Workplan document	Before 4/1/2014		Submitted by 4/1/14.

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3	Strategy Implementation: In addition to statutory and regulatory requirements included in tasks below, the State commits to implementing one or more specific monitoring program improvements, identified in its approved monitoring strategy, and indicated in other appropriate tasks below, subject to availability of resources/funding.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003) WQ-5	Output: Report on Completion of Monitoring Tasks	12/31/2014		Wetland monitoring program in development; also see design and indicator enhancements below.

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4	Designs - Probability Networks, etc: The State commits to enhancing its network designs, such as probabilistic monitoring networks for making statistically valid inferences about the condition of all state water types, over time, subject to availability of resources/funding.	<i>Program Priority & Elements of a State Water Monitoring Assessment Program (EPA 841-B-03-003)</i> WQ-5	Output: Description of Enhanced Network Designs	12/31/2014		In CY13 and CY14, lake algal bloom response monitoring was initiated, and nutrient criteria development data collection was performed in Bluegrass wadeable streams.

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5	Indicators: The State commits to development of monitoring indicator capabilities [for example: additional resource types, parameters, a 2 nd biological assemblage for streams, etc.] over time, subject to availability of resources/funding.	<i>Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003)</i> WQ-5	Output: Enhanced Indicator Capabilities, i.e., Phytoplankton	12/31/2014		Addition of fish community to probability network continues. Piloted visual algae surveys in CY14 bluegrass nutrient study .

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6	BMP & Restoration Effectiveness: The State will monitor at least three watersheds (in EPA priority watersheds when possible) where water restoration projects (e.g., 319 BMPs, TMDLs, NPDES permit changes) have been planned and/or implemented to validate/ verify WQ changes in those waterbody segments. Using data obtained before and after project implementation, the State will assess the effectiveness of the water restoration strategies for attainment of water quality standards and designated uses. Specific waters\watersheds where this activity has or will occur are: _____,	Program Priority\ 2.2.1 SP-10 SP-11 SP-12	Output: Submit monitoring data in WQX and assessment results in ADB for the water restoration projects where post project monitoring has been initiated or completed. Submit results in the TP	12/31/2014	Please indicate specific waters under Task Description.	Pre-implementation monitoring ongoing in Strodes Creek, Pleasant Run; initiated CY14 in Hinkston Creek, Red Bird River, Darby Creek; CY13 data will be submitted to WQX at end of 2014. No effectiveness assessments completed due to project monitoring phase of FY2014 projects.

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7	Third Party Data: To enhance limited monitoring resources, and reduce duplication of efforts, the State will scientifically review “all existing and readily-available” data (State & third party), for compelling evidence of water quality impairment or improvement and will use these data as indicators of change in water quality as appropriate. Where warranted, the State will then monitor to supplement the available data to meet data requirements and thresholds for determining the waterbody’s use support status and to confirm the actual water quality condition. The State will encourage other agencies and organizations to target monitoring to define baseline conditions or watershed improvement/restoration, where such monitoring is judged appropriate by the State.	Program Priority 2.2.1	Output: Report use of third party data as indicator of change and as supplemental data in determination of waterbody water quality conditions where appropriate.	12/31/2014		Solicited/ submitted 3 rd party data and data from joint projects are regularly used; 3 rd party data that were used in 305b assessments are noted in ADB.

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8	Quality Assurance - Quality Management Plan (QMP): The State commits to maintaining an up-to-date and approved Quality Management Plan (QMP) The State shall review its QMP at least annually to reconfirm its suitability and effectiveness. When significant changes occur, as defined in EPA QA/R-2, the State shall revise and resubmit the QMP to EPA for review and approval.	In accordance with EPA Order 5360.1 A2 and EPA Requirements for Quality Management Plans (EPA QA/R-2). 2.2.1	Output: Reconfirm Suitability of existing QMP. Revised QMP for review and approval. Expiration date is 7/29/09.	12/31/14 Due 3 months prior to the expiration date.		The QMP was reviewed in 2014 for applicability and correctness. KY's current QMP was approved by EPA on 02/23/11. The next revision will be submitted on or before 02/23/16.

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9	Quality Assurance - Laboratory & Other Audits: The State agrees to participate in any requested reviews or audits of its monitoring and analysis program by Region 4, including, but not limited to, the following: an annual review of the QAP(s) for the ambient surface water quality monitoring program, and a data validation audit to ensure monitoring data is of known and documented quality.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003)	Output: Reports status of recommendations and implementation of corrective actions, associated with SEDD audits and Region 4 review of QAPs.	By 12/31/14, if requested		No audits were requested or performed by EPA in FY14.

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10	Quality Assurance- Quality Assurance Project Plans (QAPPs) and Standard Operating Procedures (SOPs): The State commits to develop and maintain peer reviewed Quality Assurance Project Plans (QAPPs) and Standard Operating Procedures (SOPs) consistent with the Data Quality Objective (DQO) process for ambient monitoring and specific projects to ensure the scientific validity of monitoring and laboratory activities. The State shall review its QAPPs and SOPs annually to ensure consistency with the comprehensive monitoring program strategy. Revisions to the QAPPs and SOPs shall also be made to reflect program changes such as staff, sampling or analytical techniques, data quality objectives, data validation procedures or data qualifiers, applicable regulations, data management protocols or procedures, or computer hardware or software requirements.	Pursuant to 40 CFR 130.4(b) and EPA Order 5360.1 A2, 2.2.1	Output: Submittal of new or revised QAPPs to EPA-Region 4 for review and approval.	Prior to initiation or in conjunction with monitoring efforts applicable to program changes		The Biological Monitoring Program, TMDL Development for FY14 and Intensive Survey Program QAPPs were submitted to EPA on 06/16/14 for review and approval. All SOPs are current and available on the DOW web site.

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11	Data Management, Water Quality Exchange (WQX)/STORage and RETrieval (STORET) Systems: The State is required to submit geo-referenced water quality data, including: ambient water chemistry, biology, habitat, fish tissue, toxicity and sediment chemistry data or a specific deliverable for electronic submission on or before April 1 st of each year. This submission must include the sampling results for FY12 through consistent with the State’s monitoring workplan. Annual electronic updates will be submitted using WQX/STORET utilizing EPA’s established electronic data schema and data elements for submission. The State agrees to geo-reference their monitoring data to include station locations. EPA may determine that an alternate data submission satisfies the statutory annual requirement, which the State and EPA will identify and discuss before Section 106 funds are awarded.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003)	Output: WQX transmission to STORET data warehouse of all State ambient water chemistry, biology, habitat, fish tissue, toxicity and sediment chemistry monitoring data, which reflect current cycle monitoring activities, which may include: Accepted, Validated, Preliminary, and	12/31/2013 and Quarterly during 2014	Report status of data management and input to WQX data warehouse.	CY2012 data submission completed before 12/31/13; CY 2013 data being migrated to new data management system (KWADE) with WQX flow from that system anticipated by 12/31/2014 pending resolution of technical issues with flow configuration.

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12	Data Management: Assessment Database (ADB) The State will record assessment decisions for Assessment Unit's (AU) using the most current version of ADB or an ADB-equivalent database. ADB equivalent databases must conform to EPA required data elements and schema. The State will provide a 305(b) ADB file containing waterbody segmentation and re-segmentation changes for current and previous cycles. State will utilize the 1:100K National Hydrography Dataset (NHD) to geo-reference all AU locations or provide strategy for accomplishing this within the State workplan element.	2006 IR Guidance and Updates WQ-7	Output: Complete Assessment Database (ADB) or an equivalent database using required EPA data elements and ADB schema. Geo-referenced data files depicting the location of every AU in the ADB or equivalent database will be submitted in the form of point, line and/or polygon	04/01/2014		The 2014 305(b)/Integrated Report (IR) is in production. The DOW is undertaking new state legislative-required reporting elements for this cycle. All 305(b) assessments are complete and submission of the IR and 303(d) & 305(b) list is anticipated by summer 2015. The DOW uses the 1:24K NHD to georeference AUs.
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13	Data Analysis and Assessment Methods: The State will document updates and refine its comprehensive, scientifically valid assessment methods for data and/or waterbody type, including use of State and third party data, considering trends, and incorporating the full range of available data.	Program Priority & Elements of a State Water Monitoring Assessment Program (EPA 841-B-03-003)	Output: The State’s Listing and Assessment Methods Report.	10/01/2013		Commensurate with the 2014 IR, the DOW has written a separate, CALM document to replace the previously approved methodology reported in the 305(b) section of the IR. This document was submitted to EPA on 11/14/14.

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14	Reporting - § 305(b) or Electronic Update and Assessment Data Base (ADB): The State shall submit its biennial 305(b) report pursuant to CWA § 305(b) as part of the Integrated (305(b)/303(d) Report. Each year, the State will submit its annual electronic update of key monitoring information along with NAD-compatible assessment data (when the State has converted to NAD-format) for all the waters assessed during the previous year. The geo-referenced data files will include the minimum data elements in accordance with the Appendices A & B of the 2006 Integrated Report Guidance.	CWA § 303(d) and 305(b), IR Guidance, 40 CFR 130.8(d)	Output: Integrated Report	IR -04/01/14 Annual update – NA		Odd-year update was not applicable.
		SP-10 SP-11 SP-12 SP-13 WQ-7				

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<p>15</p> <p>Task #</p> <p>106 Workplan Task Description</p> <p>State's Evaluation: The State will evaluate its monitoring and assessment program through processes/activities such as staff input, peer review, etc. and document how well the state's monitoring designs and systems meet its objectives and decision needs.</p>		<p>Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003)</p> <p>WQ-5</p>	<p>Output: State self-assessment of monitoring & assessment program</p>	<p>12/31/2014</p>		<p>DOW staff review conducted October 2014; input to be incorporated into strategy revisions during CY2015.</p>

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**Goal 2 – Protecting America’s Waters
Goal 5 – Enforce Environmental Laws**

Task #	106 Workplan Task Description	Basis for 106 Workplan Task	Commitment Output/ Outcome	Date Due	EPA Comments	End-of-Year State Report/State Comments (Indicate whether task has been met by writing the date the task was completed. If the task is not completed, provide an explanation for any delays or issues encountered.)
16	Joint Evaluation/ Progress Report: The State will assist EPA to conduct Annual Evaluations of progress in implementing workplan commitments by providing status reports for each task. The reports should be included in the column of this workplan labeled State Comments.	Program Priority Regulatory Requirement 40 CFR 31.40 (b) 40 CFR 35.115 (a)	Output: 106 Annual Progress Report	12/31/2014		Completed by 12/31/2014 (this report).
		2.2.1				